Elec & Eltek依利安達
E & E Magnetic Products Limited

SMT GATE DRIVE TRANSFORMER
Basic and Operational Insulation

- 1500Vdc Isolation between Gate and Drive
- Operation frequency: 50kHz minimum
- Basic insulation (1.4mm creepage / clearance) and operational insulation is available
- Operating temperature -40°C to +130°C.
- RoHS compliant version is available
- Custom design is also available

ELECTRICAL SPECIFICATION @ 25°C

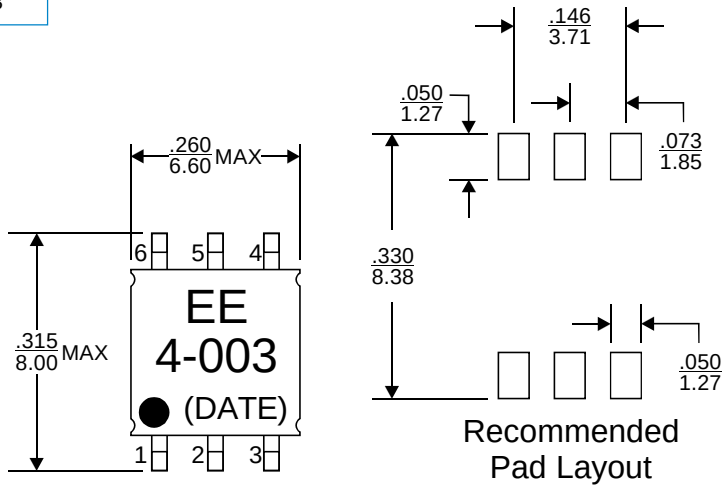
Part Number	RoHS Part Number	Turns Ratio	Primary Inductance (uH Min)	Leakage Inductance (uH Max)	DCR Primary (Ω Max)	DCR Secondary (Ω Max)	Hipot	Max V.µsec	Package Size (L x W x H) (mm Max)
Operational Insulation									
834-00002	834-00002F	1 : 1 : 1	3300	0.70	1.60	1.60	1500Vdc	45.1	9.0 x 8.6 x 7.6
834-00003	834-00003F	1 : 1 : 1	300	0.50	2.00	2.00	1500Vdc	23.8	8.0 x 6.6 x 5.3
834-00006	834-00006F	1 : 1 : 1	1140	0.65	0.75	0.75	1500Vdc	12.7	8.6 x 6.7 x 3.6
834-00007	834-00007F	1 : 1	600	17.00	0.80	0.80	1500Vdc	9.3	7.6 x 5.1 x 3.8
834-00012	834-00012F	1 : 1	785	0.46	0.60	0.60	1500Vdc	9.7	9.1 x 6.6 x 2.5
Basic Insulation (1.4mm creepage and clearance between Primary and Secondary)									
834-00011	834-00011F	2 : 1 : 1	1200	0.60	0.91	0.46	1500Vrms	27.2	9.0 x 8.6 x 7.6
834-00022	834-00022F	1 : 1	1200	0.50	0.91	0.91	1500Vrms	27.2	9.0 x 8.6 x 7.6
834-00023	834-00023F	2.5 : 1 : 1	1200	0.68	0.91	0.38	1500Vrms	27.2	9.0 x 8.6 x 7.6

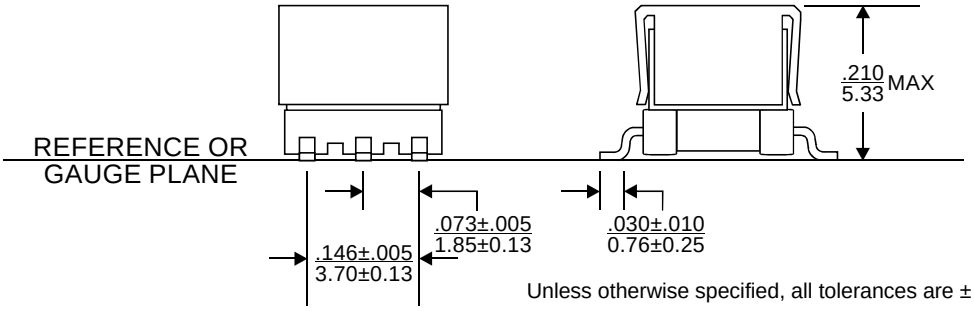
Notes:

1. The maximum volt-µsec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application. For bi-polar drive application, a maximum volt-µsec of two times this rating is acceptable.
2. Leakage inductance is measured at primary terminals with all secondaries shorted.
3. Operating temperature range: -40°C to +130°C. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

MECHANICAL DIMENSIONS

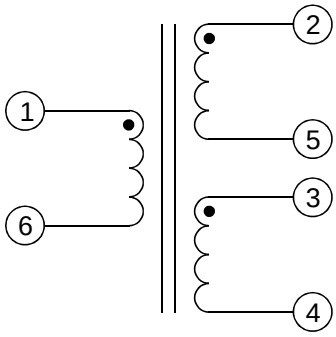
834-00003





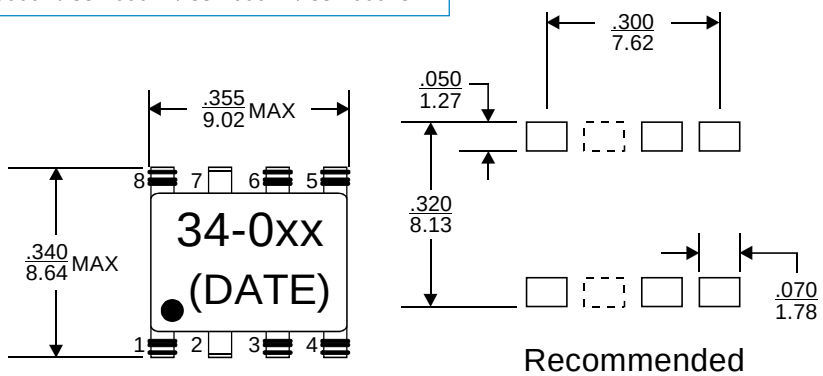
Unless otherwise specified, all tolerances are ± .010 0.25 .

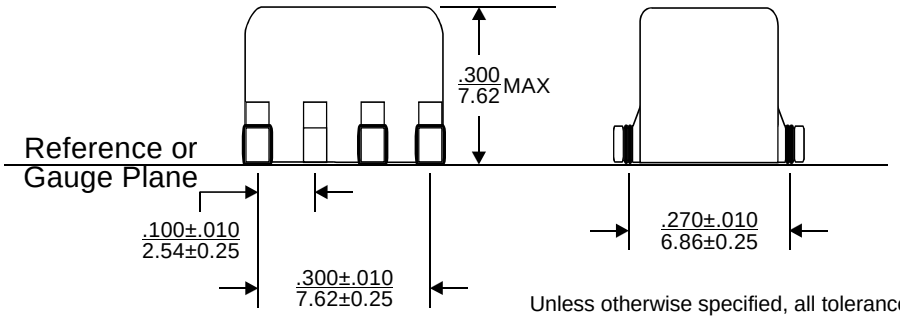
SCHEMATICS



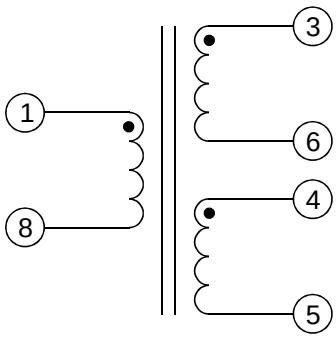
Weight (in gram)	:	0.50 typ.
Tape & Reel	:	800 / reel

834-00002 / 834-00011 / 834-00022 / 834-00023

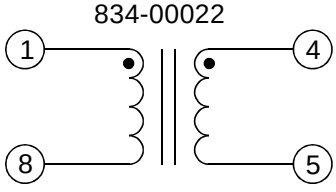




834-00002 / 834-00011 / 834-00023



834-00022



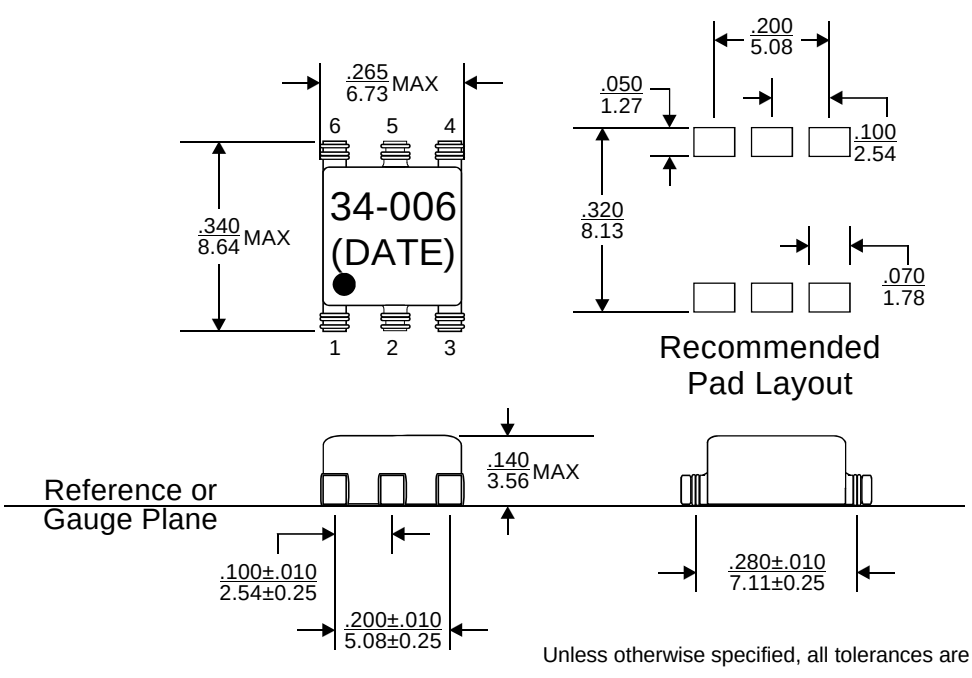
Weight (in gram)	:	0.65 typ.
Tape & Reel	:	600 / reel

Unless otherwise specified, all tolerances are ± .010 0.25 .

SMT GATE DRIVE TRANSFORMER
Basic and Operational Insulation

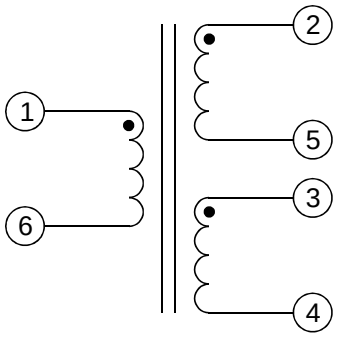
MECHANICAL DIMENSIONS

834-00006



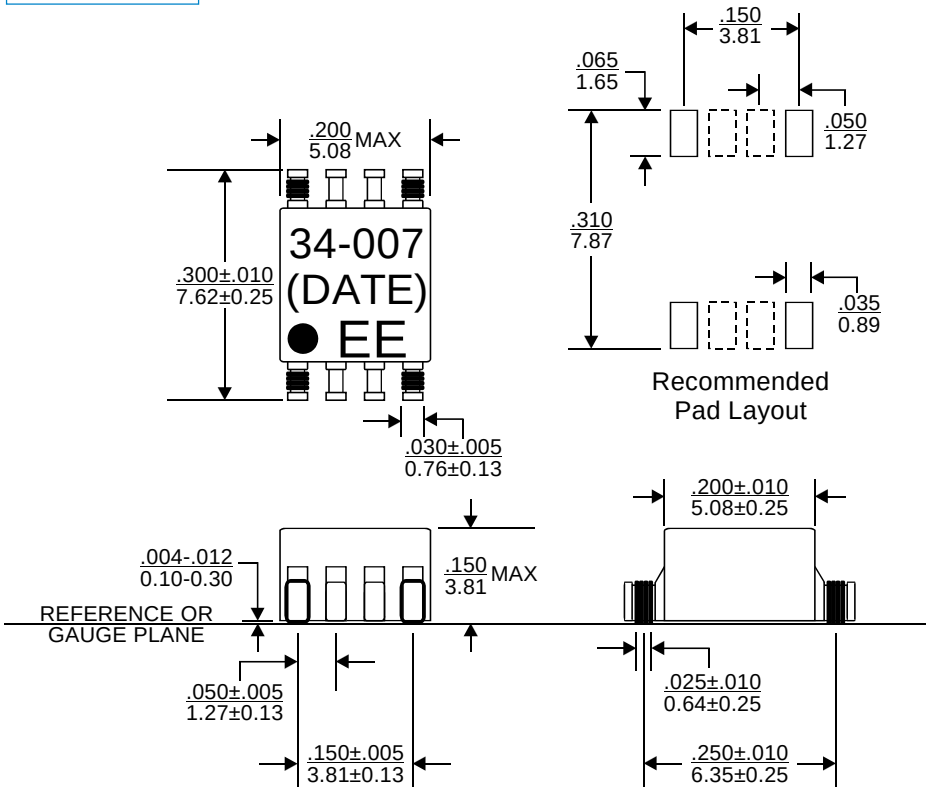
Unless otherwise specified, all tolerances are ± .010 0.25 .

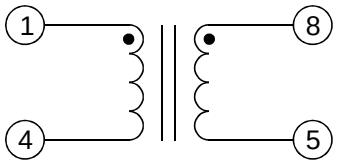
SCHEMATICS



Weight (in gram)	:	0.23 typ.
Tape & Reel	:	1200 / reel

834-00007



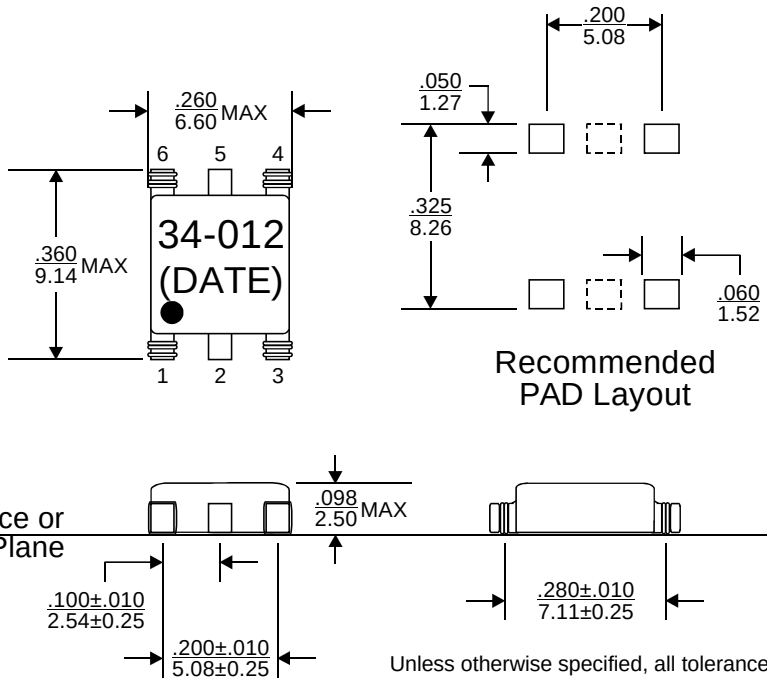


Weight (in gram)	:	0.65 typ.
Tape & Reel	:	1100 / reel

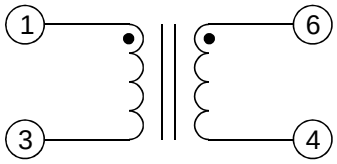
SMT GATE DRIVE TRANSFORMER
Basic and Operational Insulation

MECHANICAL DIMENSIONS

834-00012



SCHEMATICS



Weight (in gram)	:	0.15 typ.
Tape & Reel	:	1800 / reel

Unless otherwise specified, all tolerances are ± .010/0.25 .

FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER
2/F Block A, Merit Industrial Centre,
94 Tokwawan Road, Kowloon,
Hong Kong
Tel: (852) 2765 3888
Fax: (852) 2954 3304
Email: eempl@eleceltek.com

Website: http://www.eleceltek.com